

TO 000-5/288T260

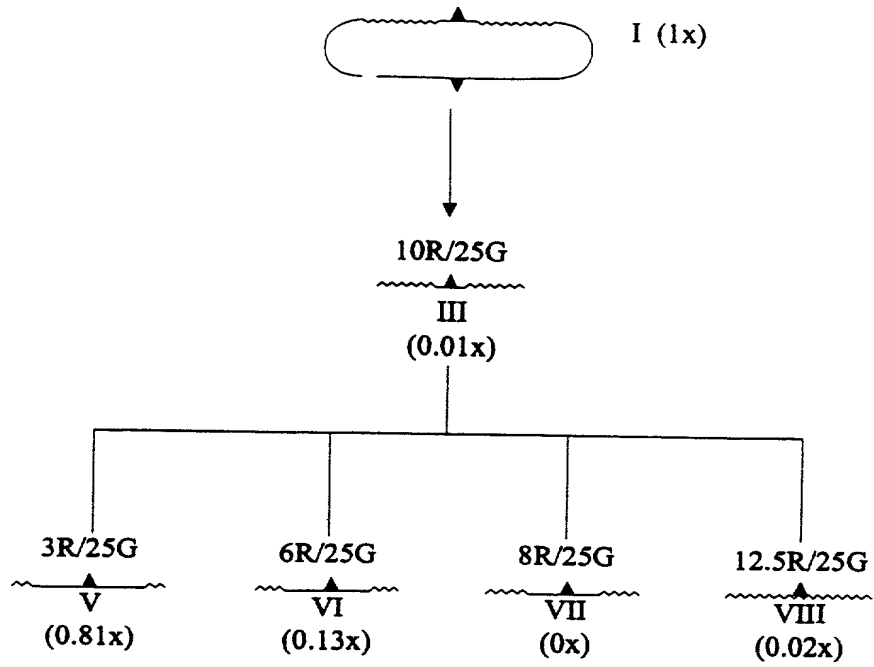


Figure 1A

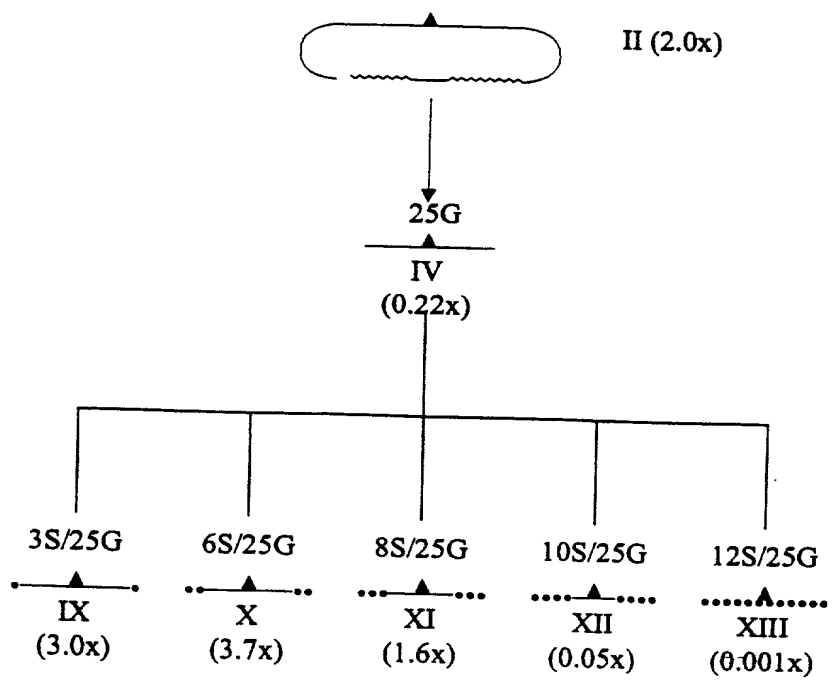


Figure 1B

Plasmids, DNA targets and chimeric oligonucleotides

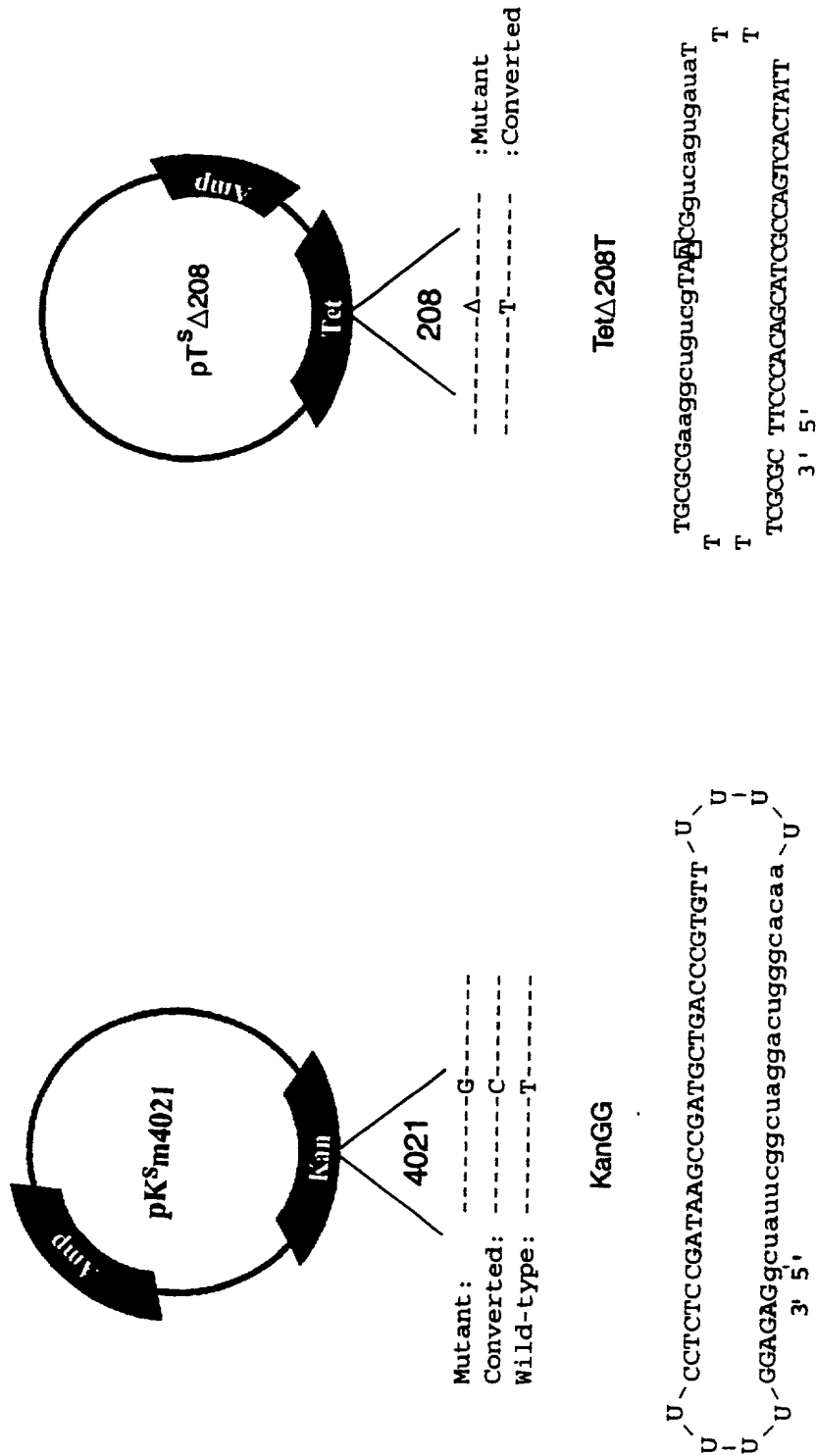
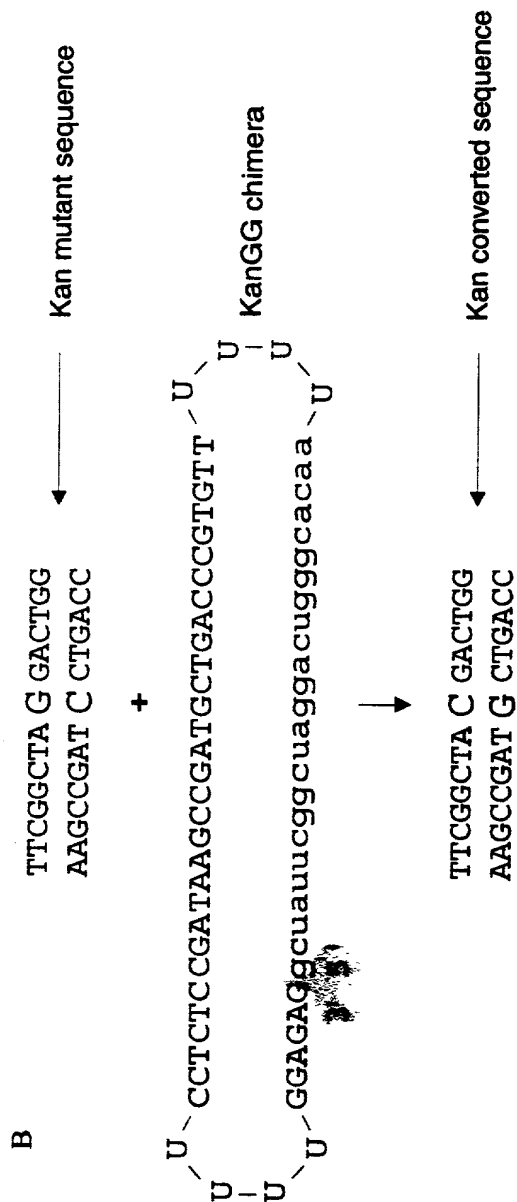


Figure 1C



DNA SEQUENCE ANALYSES

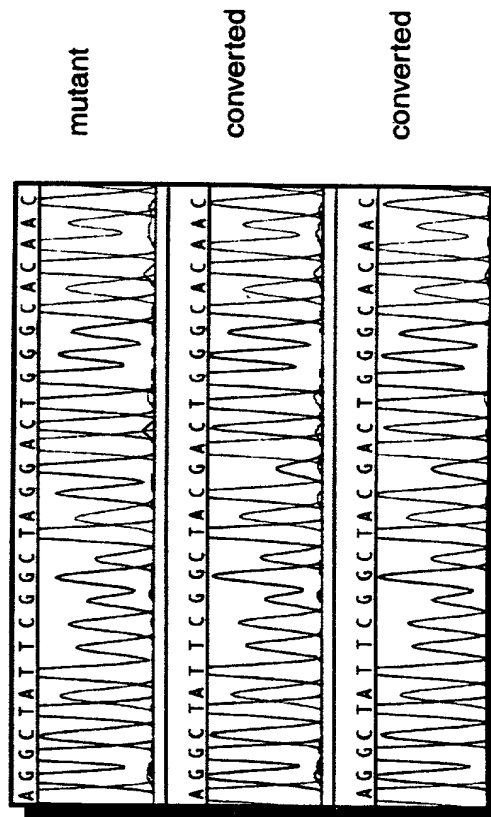


Figure 1D

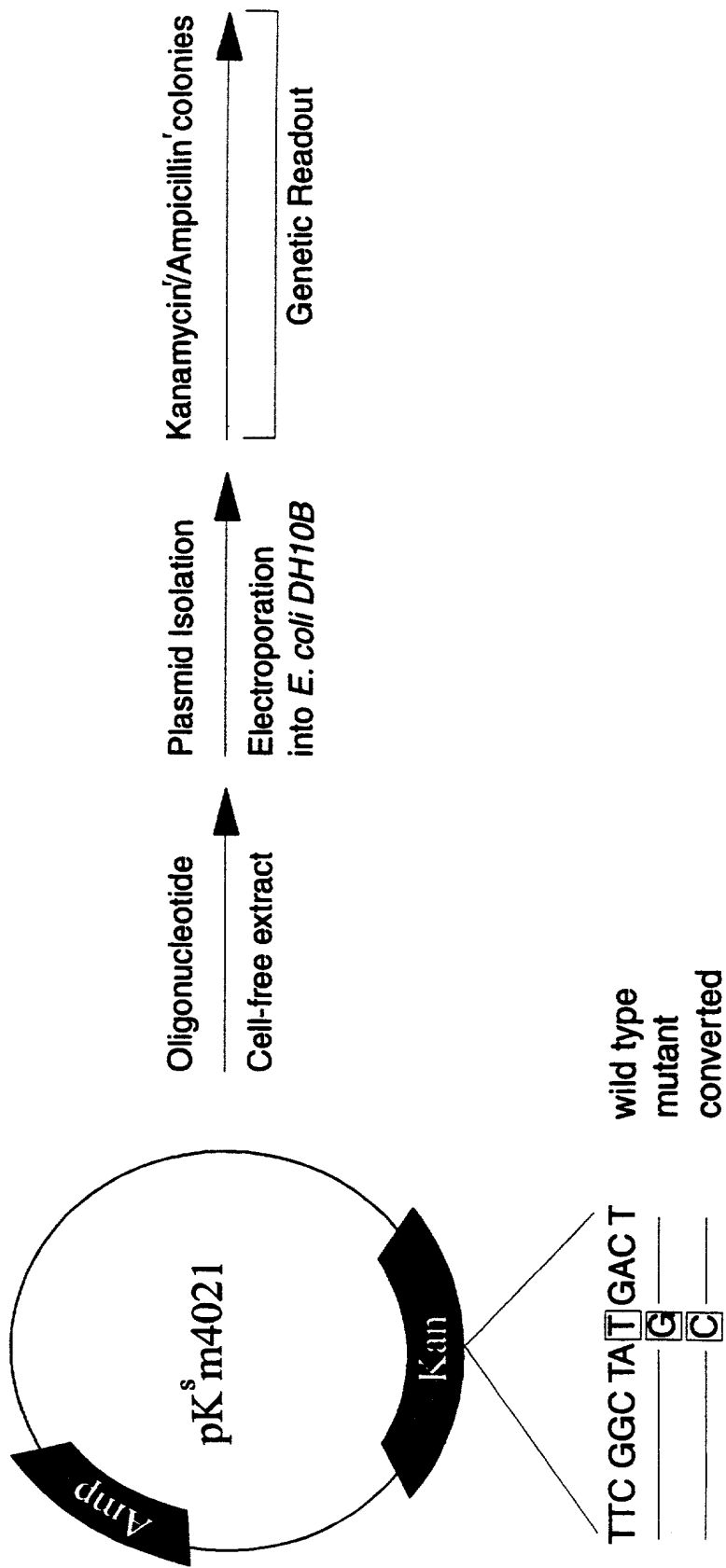
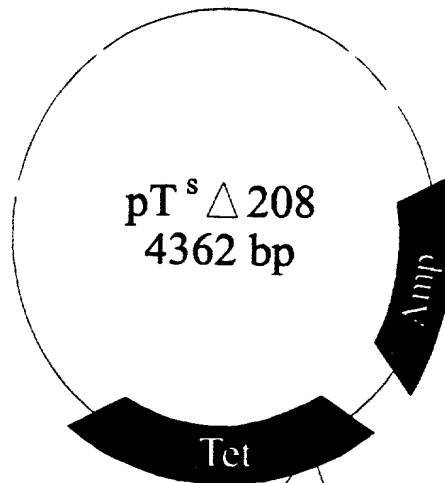


Figure 2



Wild type: GAC AGC AT C GCCAGT
 Mutant: GAC AGC AT - GCCAGT
 Converted: GAC AGC AT T GCCAGT

Sequence analysis of Tet^r plasmid Δ208

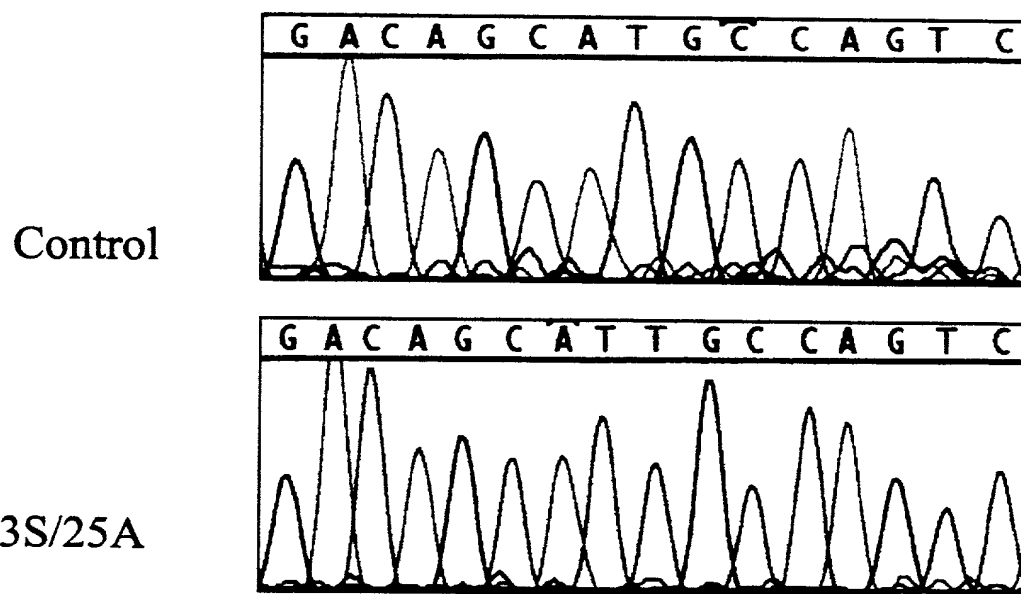
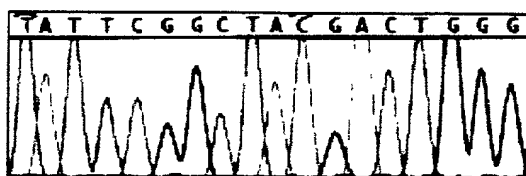


Figure 3

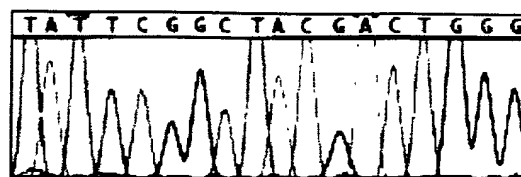
DNA sequence analysis of Kan^r plasmids

Target codon distribution					
oligomer	TAG	TAC	TAC/TAG	TGG	TCG
1) 3S/25G (20)	----	+	---	---	---
2) 6S/25G (20)	----	+	---	---	---
3) 8S/25G (20)	----	+	---	---	---
4) 10S/25G (18)	----	+	---	+(2)	+(2)
5) 25S/25G (4)	---	---	+(2)	+(2)	---

3S/25G



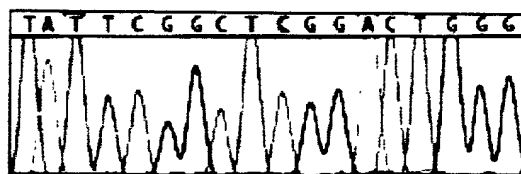
6S/25G



8S/25G



10S/25G



25S/25G



25S/25G

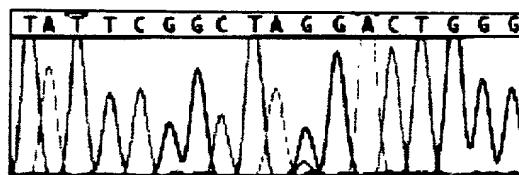


Figure 4

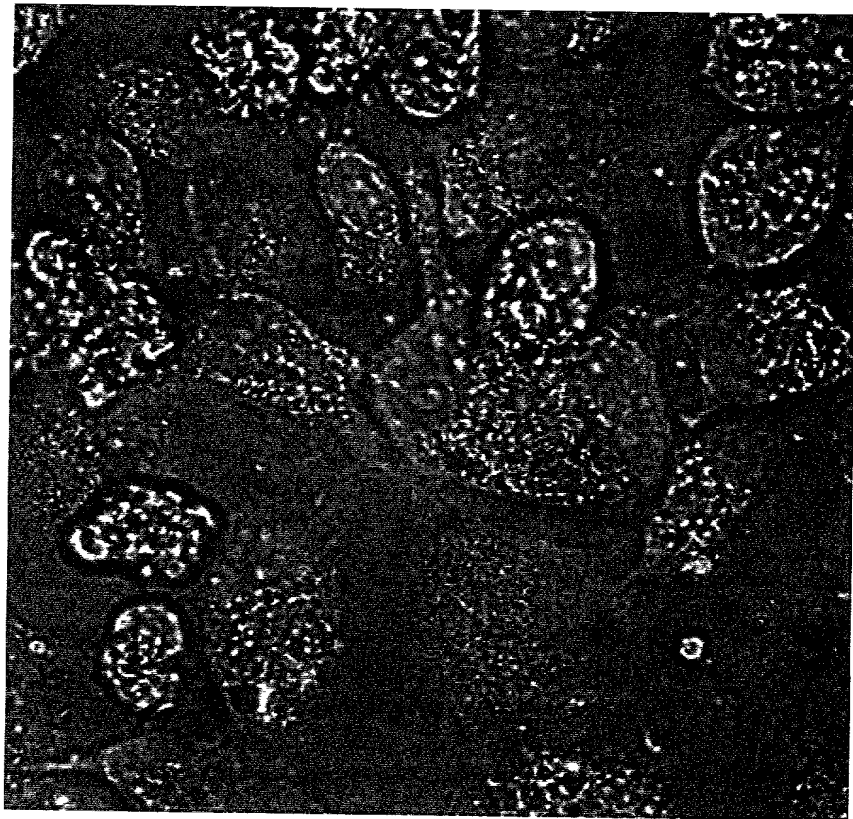


Figure 5

0001030" 54887850



Figure 6

TCACCG"5282T850

Sequence of normal allele: GTGGATATGTCCT
 Target/existing mutant: GTGGATAATGTCCT
 Desired alteration: GTGGATACGTCCT

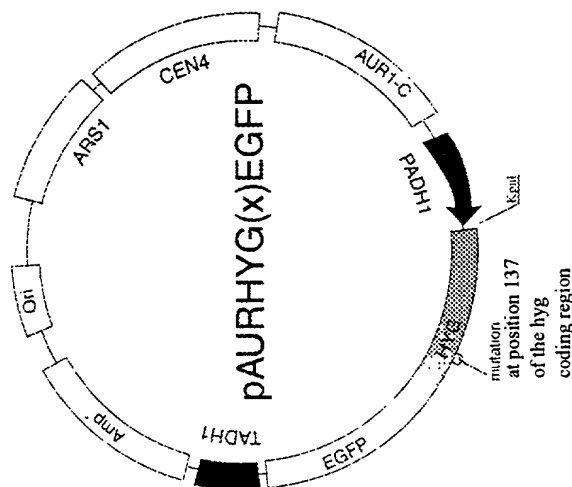


Figure 7A

Sequence of normal allele: GTGGATATGTCCT
 Target/existing mutant: GTGGATAGGTCCT
 Desired alteration: GTGGATACGTCCT

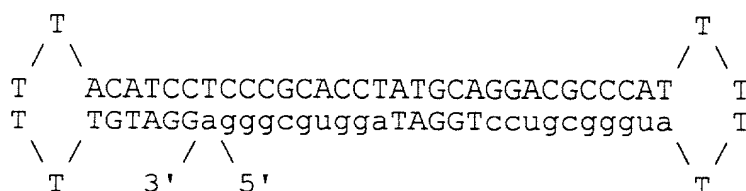
Figure 7B

HydE3T/25: 5'-AGG GCG TGG ATA CGT CCT GCG GGT A-3'

HydE3T/74: 5'-CTC GTG CTT TCA GCT TCG ATG TAG GAG GGC
GTG GAT ACG TCC TGC GGG TAA ATA GCT GCG
CCG ATG GTT TCT AC-3'

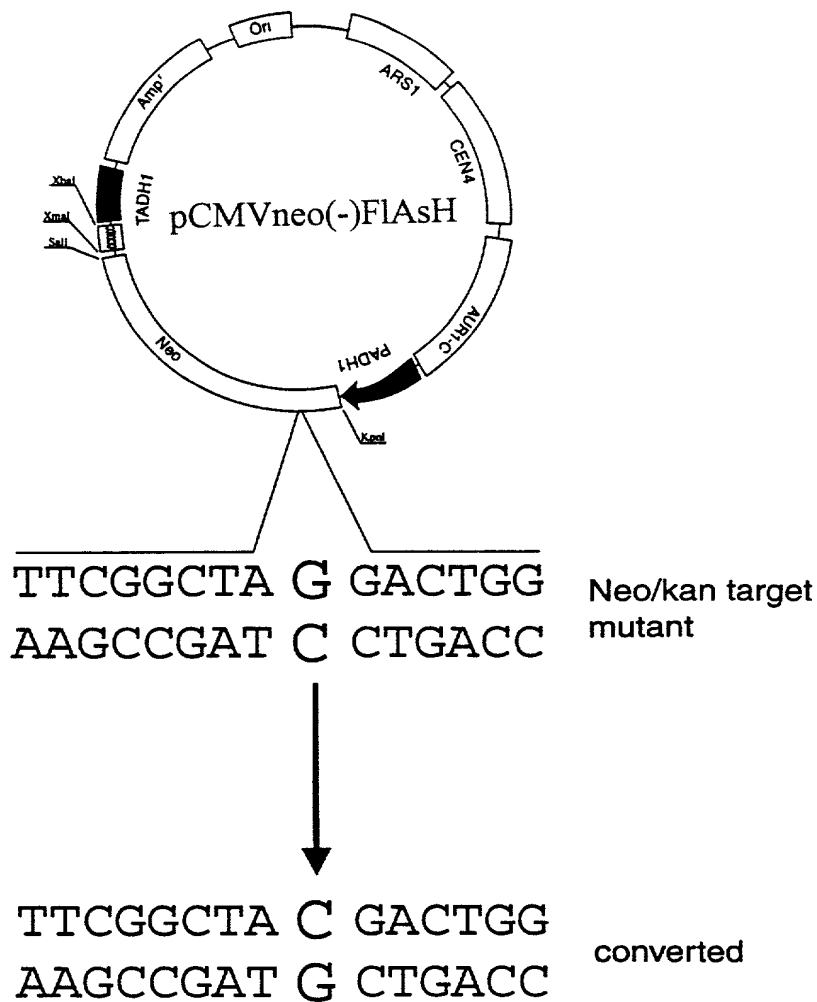
HydE3T/74α: 5'-GTA GAA ACC ATC GGC GCA GCT ATT TAC CCG
CAG GAC GTA TCC ACG CCC TCC TAC ATC GAA
GCT GAA AGC ACG AG-3'

HydGG/Rev:



Kan70T: 5'-CAT CAG AGC AGC CAA TTG TCT GTT GTG CCC AGT
CGT AGC CGA ATA GCC TCT CCA CCC AAG CGG CCG GAG
A-3'

Figure 8



FUSION GENE FOR LIGAND BINDING

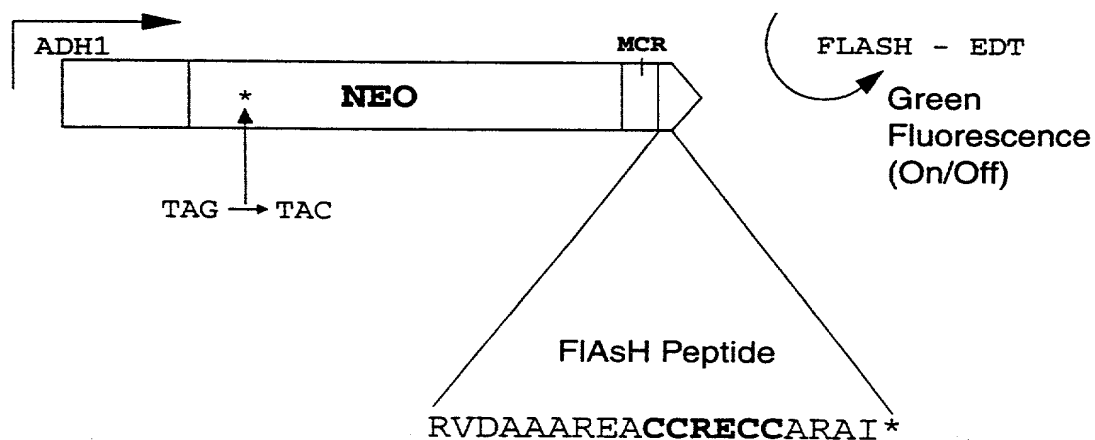


Figure 9

TC2080-2251350

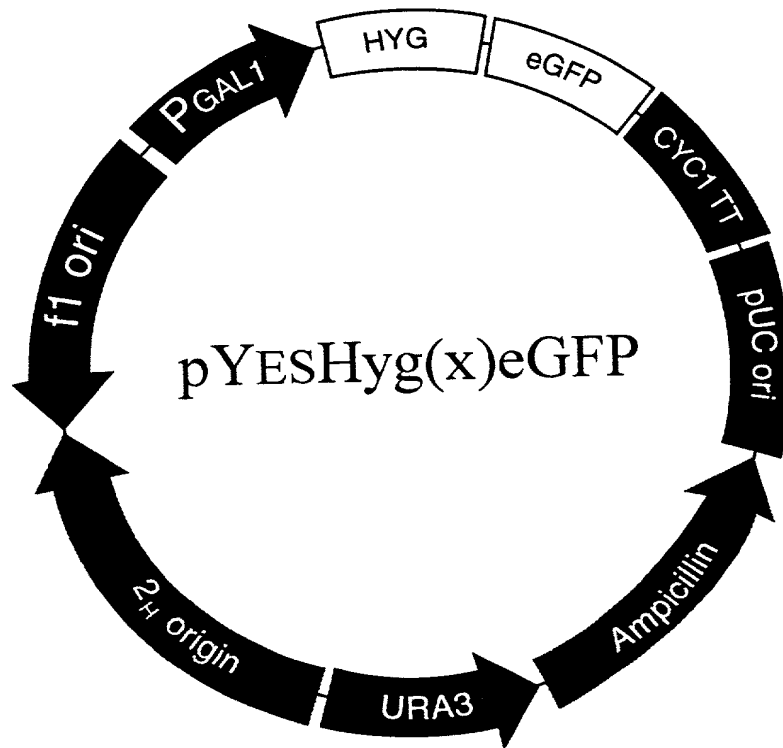


Figure 10